Mechanical specifications

	Item		Unit	Data					
Clamping unit	Clamping mechanism		---	Double toggle					
	Tonnage		kN	Standard 1000 (100tonf) / Increased 1250 (125tonf) [Option]					
	Maximum and minimum die height		mm	Double platen 450 - 150 / Extended die height 550 - 150 [Option] Single platen 520 - 220 / Extended die height 620 - 220 [Option]					
	Clamping stroke		mm	350					
	Locating ring diameter		mm	φ100					
	Tie bar spacing (H×V)		mm	460 × 410					
	Platen size (H×V)		mm	660 × 610					
	Minimum mold size (H×V)	*1	mm	265 × 240					
	Maximum mold weight (Moving-Stationary)	*2	kg	Double platen 440 - 440 / Single platen 600 - 440					
	Ejector stroke		mm	100					
	Maximum ejector force		kN	Standard 25 (2.5tonf) / Increased 60 (6tonf) [Option]					
Injection unit	Screw diameter		mm	22	26	28	32	36	40 *13
	Injection stroke		mm	75	95	95	128	144	144
	Maximum injection volume	*3	cm³	29	50	58	103	147	181
	Inj.speed 200mm/s	Max. inj. prs.(High prs.mode) *4 *6	MPa	340	340	320	270	220	---
		Max. inj. prs.(W/C) *4 *7	MPa	290	290	270	250	190	160
		Max. inj. prs.(General Purpose) *4 *8	MPa	260	260	240	220	190	160
		Maximum injection rate *5	cm³/s	76	106	123	160	203	251
		Maximum injection speed *5	mm/s	200					
		Maximum screw rotation speed	min⁻¹	300					
	Inj.speed 200mm/s (High duty)	Max. inj. prs.(High prs.mode) *4 *6	MPa	---	---	---	270	220	---
		Max. inj. prs.(W/C) *4 *7	MPa	---	---	---	250	200	180
		Max. inj. prs.(General Purpose) *4 *8	MPa	---	---	---	220	200	180
		Maximum injection rate *5	cm³/s	---	---	---	160	203	251
		Maximum injection speed *5	mm/s	---	---	---	200		
		Maximum screw rotation speed	min⁻¹	---	---	---	450		
	Inj.speed 350mm/s	Max. inj. prs.(High prs.mode) *4 *6	MPa	340	340	320	270	220	---
		Max. inj. prs.(W/C) *4 *7	MPa	290	290	270	250	190	160
		Max. inj. prs.(General Purpose) *4 *8	MPa	260	260	240	220	190	160
		Maximum injection rate *5	cm³/s	133	185	215	281	356	439
		Maximum injection speed *5	mm/s	350					
		Maximum screw rotation speed	min⁻¹	450					
	Inj.speed 550mm/s	Max. inj. prs.(High prs.mode) *4 *6	MPa	340	---	---	---	---	---
		Max. inj. prs.(W/C) *4 *7	MPa	290	260	220	170	---	---
		Max. inj. prs.(General Purpose) *4 *8	MPa	260	260	220	170	---	---
		Maximum injection rate *5	cm³/s	209	292	338	442	---	---
		Maximum injection speed *5	mm/s	550				---	---
		Maximum screw rotation speed	min⁻¹	450				---	---
	Inj.speed 650mm/s	Max. inj. prs.(W/C) *4 *7	MPa	290	290	270	210	---	---
		Max. inj. prs.(General Purpose) *4 *8	MPa	260	260	240	210	---	---
		Maximum injection rate *5	cm³/s	247	345	400	522	---	---
		Maximum injection speed *5	mm/s	650				---	---
		Maximum screw rotation speed	min⁻¹	450				---	---
	Inj.speed 750mm/s *11	Max. inj. prs.(High prs.mode) *4 *6	MPa	340	320	280	210	---	---
		Maximum injection rate *5	cm³/s	285	398	461	603	---	---
		Maximum injection speed *5	mm/s	750				---	---
		Maximum screw rotation speed	min⁻¹	450				---	---
	Nozzle touch force / Increased	*9	kN	15 (1.5tonf) / 30 (3tonf) [Option]					
	Screw & Barrel	Number of pyrometers	Barrel	3					
			Nozzle	1					
		Total heater wattage	kW	3.9	6.5	7.2	8.4	9.1	9.9
Machine Weight	*10		t	Inj.speed 200mm/s (Double platen) Approx. 4.4 / (Single platen) Approx. 4.25 Inj.speed 200mm/s (High duty) (Double platen) Approx. 4.4 / (Single platen) Approx. 4.25 Inj.speed 350mm/s (Double platen) Approx. 4.4 / (Single platen) Approx. 4.25 Inj.speed 550mm/s (Double platen) Approx. 4.4 / (Single platen) Approx. 4.25 Inj.speed 650mm/s (Double platen) Approx. 4.6 / (Single platen) Approx. 4.45 Inj.speed 750mm/s *11 (Double platen) Approx. 4.6 / (Single platen) Approx. 4.45					

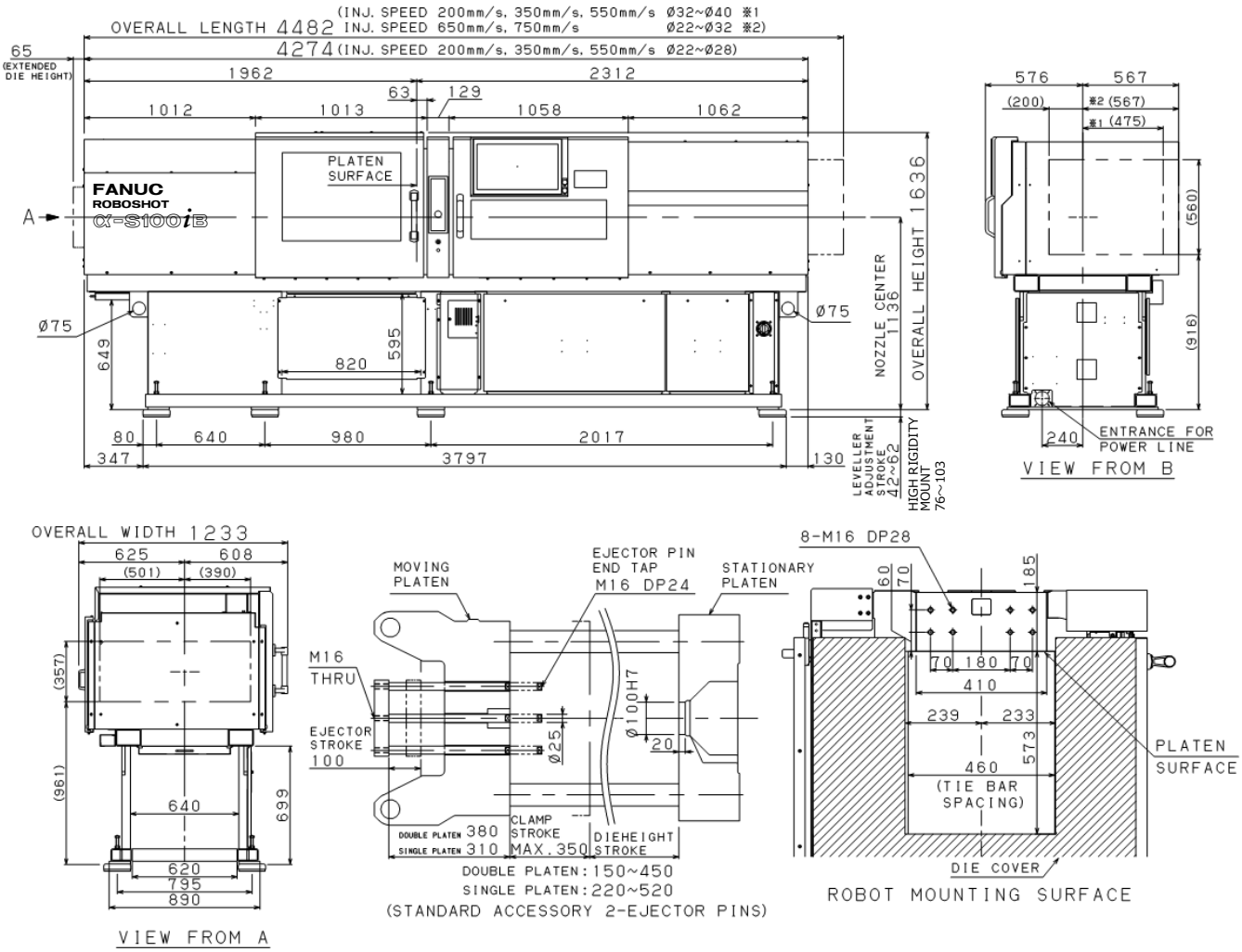
*1 Smaller mold than this size may limit clamp force.
*2 If the weight of a mold exceeds maximum mold weight, the molding condition may be limited.
*3 The maximum injection volume is a calculated value. (Cross-sectional area x injection stroke)
*4 Maximum pack pressure is equal to maximum injection pressure. Maximum injection pressure and maximum pack pressure are the output of the injection unit, not the resin pressure. Maximum injection pressure and maximum pack pressure are the maximum values that can be set.
*5 Maximum injection rate and maximum injection speed is a theoretical value. Maximum injection rate and maximum injection speed can not be guaranteed when the injection pressure is maximum.
*6 The maximum injection pressure setting at high pressure filling mode option.There is a limitation in injection time setting and pack time setting, when high pressure filling mode option is selected. High pressure resistance barrel and nozzle are necessary, when high pressure filling mode option is selected.(Contact sales for detail)
*7 Maximum injection pressure(W/C) are the values when the wear-resistant and anti-corrosion Barrel etc. is installed. Maximum injection pressure and maximum pack pressure may vary depends on the installed screw and Barrel specifications.
*8 Maximum injection pressure (General Purpose) are the values when the general purpose Barrel etc. is installed. Maximum injection pressure and maximum pack pressure may vary depends on the installed screw and Barrel specifications.
*9 Sprue break cannot be used with increased nozzle touch force option.
*10 The machine weight is the value when the option is not installed. Total weight may vary depending on equipment.
*11 Select high filling mode for injection speed 750 mm/s specification.
*12 The pressure conversion is 1MPa=10kgf/cm².
*13 The molding condition might be limited by the resin.(Contact sales for detail)
*14 In case of the replacement to different screw diameter after shipment, some covers may be needed to replace. (Contact sales for detail)

Installation conditions

Item		Data
Input power source		3-phase AC200V±10% 50/60Hz±1Hz 3-phase AC220V±10% 60Hz±1Hz
Main breaker *15	Inj.speed 200mm/s	150A (With peripheral devices) *16 60A (With no peripheral device) *16
	Inj.speed 200mm/s (High duty)	150A (With peripheral devices) *16 60A (With no peripheral device) *16
	Inj.speed 350mm/s	150A (With peripheral devices) *16 60A (With no peripheral device) *16
	Inj.speed 550mm/s	150A (With peripheral devices) *16 60A (With no peripheral device) *16
	Inj.speed 650mm/s	225A (With peripheral devices) *16 125A (With no peripheral device) *16
	Inj.speed 750mm/s *11	225A (With peripheral devices) *16 125A (With no peripheral device) *16
Ground		Follow relevant laws and standards of the country where the machine is installed when performing grounding.
Installing environment	Temperature	0～40℃ (20～25℃ recommended)
	Humidity	Below 75% (Below 95% under short term operation)
	Vibration	Below 0.5G
	Atmosphere	Take care of corrosive gas.

*15 Connect power cable to the machine's main breaker directly. The breaker is ground fault type with 100mA of sensitivity.
*16 With peripheral devices : When the molding machine equiped "External outlet", "Mold heater controller" or "Integrated hotrunner controller". ("Mold heater controller" and "Intefrated hotrunner controller" cannot be selected simultaneously.)
With no peripheral device : When only the molding machine is used.
*17 Please contact sales for details about the value of sound generated in this machine.

All specifications are subject to change without notice.


(INJ. SPEED 200mm/s, 350mm/s, 550mm/s Ø32~Ø40 ※1
OVERALL LENGTH 4482 INJ. SPEED 650mm/s, 750mm/s Ø22~Ø32 ※2)
4274 (INJ. SPEED 200mm/s, 350mm/s, 550mm/s Ø22~Ø28)
65 (EXTENDED DIE HEIGHT)
1962
2312
63
129
1012
1013
1058
1062
PLATEN SURFACE
FANUC ROBOSHOT α-S100iB
A
Ø75
649
595
820
Ø75
NOZZLE CENTER 1136
OVERALL HEIGHT 1636
80
640
980
2017
347
3797
130
LEVELLER ADJUSTMENT STROKE 42~62
HIGH RIGIDITY MOUNT 76~103
576
567
(200)
※2 (567)
※1 (475)
(560)
(916)
240
ENTRANCE FOR POWER LINE
VIEW FROM B
OVERALL WIDTH 1233
625
608
(501)
(390)
(357)
(961)
640
699
620
795
890
VIEW FROM A
MOVING PLATEN
EJECTOR PIN END TAP M16 DP24
STATIONARY PLATEN
M16 THRU
EJECTOR STROKE 100
Ø25
Ø100H7
20
DOUBLE PLATEN 380
SINGLE PLATEN 310
CLAMP STROKE MAX. 350
DIE HEIGHT STROKE
DOUBLE PLATEN: 150~450
SINGLE PLATEN: 220~520
(STANDARD ACCESSORY 2-EJECTOR PINS)
8-M16 DP28
60
70
185
70
180
70
410
239
233
573
460
(TIE BAR SPACING)
PLATEN SURFACE
DIE COVER
ROBOT MOUNTING SURFACE
138
660 (PLATEN SIZE)
230
500
450
350
250
150
72-M16 DP35
EJECTOR HOLE 5-Ø30 THRU
437
200
150
250
350
450
500
610 (PLATEN SIZE)
200
18
95
275
275
95
605
595
595
605
100
MOVING PLATEN
243
660 (PLATEN SIZE)
150
72-M16 DP35
620 (PLATEN SIZE)
ROBOT BASE
325
TOP OF DIE COVER 499
(TIE BAR SPACING)
410
460
(TIE BAR SPACING)
257
257
370
370
100
STATIONARY PLATEN